## FORSPAN ASSESSMENT MODEL FOR CONTINUOUS ACCUMULATIONS-BASIC INPUT DATA FORM (NOGA, Version 9, 2-10-03)

#### **IDENTIFICATION INFORMATION**

Region:         North America         Number:         5           Province:         Wind River Basin         Number:         50							9/19/2005
							5035
Total Petroleum System:							
							50350265
Based on Data as of:	tested cells ba	ased on IHS	Energy Data	2002, EUR l	pased on t	first quarter 2	2005?
Notes from Assessor:							
	CHAR	ACTERISTIC	CS OF ASSE	ESSMENT UN	NIT		
Assessment-unit type: 0	,	. —	•	,	•		Gas
What is the minimum tot		r cell?	0.02 (m	nmbo for oil A	U.; bcfg f	or gas A.U.)	
Number of tested cells:	346		• • • • • • • • • • • • • • • • • • • •	0.4.0			
Number of tested cells with	•	•		216			
Established (discovered cells Median total recovery per	′	rpothetical (no	· ·	hefa for age	Δ Ι Ι \		
Median total recovery per	1st 3rd disc		0.9	2nd 3rd		3rd 3rd	0.4
	rot ora aloo	_	0.0	<u></u>	1.0	010 010	0.1
Assessment-Unit Probab	oilities:						
<u>Attribute</u>			<u>Proba</u>	bility of occur	rence (0-	1.0 <u>)</u>	
1. CHARGE: Adequate pe	-				_		1.0
2. ROCKS: Adequate rese	•					nimum.	1.0
3. TIMING: Favorable geo	logic timing for	an untested	cell with tota	I recovery <u>&gt;</u> n	ninimum.		1.0
Assessment-Unit GEOLO	CIC Probabili	tv (Product	of 1 2 and 3	2).			1.0
Assessment-onit GEOL	JGIC PIODADIII	ty (Floduct	or i, z, and s	o).			1.0
NO. OF U	INTESTED CEI	LS WITH P	OTENTIAL F	OR ADDITIO	ONS TO R	ESERVES	
Total assessment-unit	area (acres): (	uncertainty o	of a fixed valu	ue)			
calculated mear	n <u>887,000</u>	minimum _	798,000	mode_8	887,000	maximum	976,000
2. Area per cell of unteste	ed cells having	potential for	additions to I	reserves (acr	es): (valu	es are inhere	ently variable)
calculated mear	n <u>80</u>	minimum _	20	mode	60	maximum	160
uncertainty of mean	: minimum	<u>40</u> r	maximum	100			
3. Percentage of total ass	sessment-unit a	rea that is u	ntested (%):	(uncertainty	of a fixed	value)	
calculated mear	n 96.3	minimum _	95	mode	96.6	maximum	97.4

#### NO. OF UNTESTED CELLS WITH POTENTIAL FOR ADDITIONS TO RESERVES

			(0	Continued)				
	ercentage of untested as a necessary criterion is t			•			, ,	
	calculated mean	6	minimum _	2	mode_	4	maximum _	12
<u>G</u>	Geologic evidence for estimates: At minimum at least one more sweet spot of 5000 acres, at mode about 5 more sweet spots, at maximum include some non-structurally controlled sweet spots							
	recovery per cell for unte s are inherently variable		• •	ial for addit	ions to reserve	es:		
	calculated mean	1.14	minimum _	0.02	median	0.6	maximum _	20
Gas	AVERAGE COPF sessment unit: /oil ratio (cfg/bo) /gas ratio (bngl/mmcfg)		ncertainty of fi			ASSESS mode	COPRODUCT	<b>S</b> maximum
	ssessment unit: iids/gas ratio (bliq/mmcfo	g)	_	0		5		35

S		RY DATA FOR UNTESTE re inherently variable)	ED CELLS		
Oil assessment unit:  API gravity of oil (degrees)  Sulfur content of oil (%)  Depth (m) of water (if applications)		minimum	mode	 	maximum
Drilling depth (m)					
minimum 	F75	mode 	F25		maximum
Gas assessment unit: Inert-gas content (%) CO <sub>2</sub> content (%) Hydrogen sulfide content (%) Heating value (BTU) Depth (m) of water (if applica	,	minimum 0.10 0.50 0.00 900	mode 1.00 3.00 0.00 1000	  	maximum 2.00 7.00 0.00 1125
Drilling depth (m)					
minimum 1500	F75 3021	mode 4000	F25 4146		maximum 5200
Success ratios: calculation ca	ulated mean 48.3 cells (%) 62	minimum 30	mode 50		maximum 65
Thorono odoboso rano, tostoa e	02				
Completion practices: 1. Typical well-completion practices: 2. Fraction of wells drilled that 3. Predominant type of stimu 4. Fraction of wells drilled that	at are typically stimulate lation (none, frac, acid	ed	ther)	conventional 1 hydro/foam 0	

#### **ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO STATES**

**Surface Allocations** (uncertainty of a fixed value)

1.	Wyoming		_represents_	100	_area % of t	he AU
<u>Oil</u>	in oil assessment unit: Volume % in entity	minimum		mode	_	maximum
Ga	s in gas assessment unit: Volume % in entity			100	_	
2.			_represents_		_area % of t	he AU
<u>Oil</u>	in oil assessment unit: Volume % in entity	minimum		mode	_	maximum
Ga	s in gas assessment unit: Volume % in entity				_	
3.			_represents_		_area % of t	he AU
<u>Oil</u>	in oil assessment unit: Volume % in entity	minimum		mode		maximum
Ga	s in gas assessment unit: Volume % in entity					
4.			_represents_		_area % of t	he AU
<u>Oil</u>	in oil assessment unit: Volume % in entity	minimum		mode	_	maximum
Ga	s in gas assessment unit: Volume % in entity				_	
5.			_represents_		_area % of t	he AU
<u>Oil</u>	in oil assessment unit: Volume % in entity	minimum		mode	_	maximum
<u>Ga</u>	s in gas assessment unit: Volume % in entity				_	
6.			_represents_		_area % of t	he AU
<u>Oil</u>	in oil assessment unit: Volume % in entity	minimum		mode	_	maximum
<u>Ga</u>	s in gas assessment unit: Volume % in entity				_	

7		_represents_		area % of the AU	
Oil in oil assessment unit:  Volume % in entity	minimum		mode	maximum 	
Gas in gas assessment unit:  Volume % in entity					
8		_represents_		area % of the AU	
Oil in oil assessment unit: Volume % in entity	minimum		mode	maximum 	
Gas in gas assessment unit: Volume % in entity					
9		_represents_		area % of the AU	
Oil in oil assessment unit: Volume % in entity	minimum		mode	maximum 	
Gas in gas assessment unit: Volume % in entity					
10		_represents_		area % of the AU	
Oil in oil assessment unit: Volume % in entity	minimum		mode	maximum 	
Gas in gas assessment unit: Volume % in entity					
11		_represents_		area % of the AU	
Oil in oil assessment unit: Volume % in entity	minimum		mode	maximum 	
Gas in gas assessment unit: Volume % in entity					
12		_represents_		area % of the AU	
Oil in oil assessment unit: Volume % in entity	minimum		mode	maximum 	
Gas in gas assessment unit:  Volume % in entity					
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### ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO GENERAL LAND OWNERSHIPS Surface Allocations (uncertainty of a fixed value)

1. Federal Lands		_represents_	56.29	_area % of th	ne AU
Oil in oil assessment unit: Volume % in entity	minimum		mode		maximum
Gas in gas assessment unit:  Volume % in entity			61		
2. Private Lands		_represents_	24.48	_area % of th	ne AU
Oil in oil assessment unit: Volume % in entity	minimum		mode		maximum
Gas in gas assessment unit: Volume % in entity			21		
3. Tribal Lands		_represents_	10.21	_area % of th	ne AU
Oil in oil assessment unit: Volume % in entity	minimum		mode		maximum
Gas in gas assessment unit: Volume % in entity			8		
4. Other Lands		_represents_	2.21	_area % of th	ne AU
Oil in oil assessment unit: Volume % in entity	minimum		mode		maximum
Gas in gas assessment unit:  Volume % in entity			2		
5. State 1 Lands		_represents_	6.81	_area % of th	ne AU
Oil in oil assessment unit:  Volume % in entity	minimum		mode		maximum
Gas in gas assessment unit:  Volume % in entity			8		
6		_represents_		_area % of th	ne AU
Oil in oil assessment unit:  Volume % in entity	minimum		mode		maximum
Gas in gas assessment unit: Volume % in entity					

7		_represents_		area % of the AU	
Oil in oil assessment unit:  Volume % in entity	minimum		mode	maximum 	
Gas in gas assessment unit:  Volume % in entity					
8		_represents_		area % of the AU	
Oil in oil assessment unit: Volume % in entity	minimum		mode	maximum 	
Gas in gas assessment unit: Volume % in entity					
9		_represents_		area % of the AU	
Oil in oil assessment unit: Volume % in entity	minimum		mode	maximum 	
Gas in gas assessment unit: Volume % in entity					
10		_represents_		area % of the AU	
Oil in oil assessment unit: Volume % in entity	minimum		mode	maximum 	
Gas in gas assessment unit: Volume % in entity					
11		_represents_		area % of the AU	
Oil in oil assessment unit: Volume % in entity	minimum		mode	maximum 	
Gas in gas assessment unit: Volume % in entity					
12		_represents_		area % of the AU	
Oil in oil assessment unit: Volume % in entity	minimum		mode	maximum 	
Gas in gas assessment unit:  Volume % in entity					
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### ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO FEDERAL LAND SUBDIVISIONS Surface Allocations (uncertainty of a fixed value)

1.	Bureau of Land Management (BLM)		_represents_	46.55	_area % of t	he AU
<u>Oil</u>	in oil assessment unit: Volume % in entity	minimum		mode	_	maximum
Ga	s in gas assessment unit: Volume % in entity			56	_	
2.	BLM Wilderness Areas (BLMW)		_represents_		_area % of t	he AU
<u>Oil</u>	in oil assessment unit: Volume % in entity	minimum		mode	_	maximum
<u>Ga</u>	s in gas assessment unit: Volume % in entity				_	
3.	BLM Roadless Areas (BLMR)		_represents_		_area % of t	he AU
<u>Oil</u>	in oil assessment unit: Volume % in entity	minimum	- <u>-</u>	mode		maximum
Ga	s in gas assessment unit: Volume % in entity				_	
4.	National Park Service (NPS)		_represents_		_area % of t	he AU
<u>Oil</u>	in oil assessment unit: Volume % in entity	minimum		mode	_	maximum
Ga	s in gas assessment unit: Volume % in entity				_	
5.	NPS Wilderness Areas (NPSW)		_represents_		_area % of t	he AU
<u>Oil</u>	in oil assessment unit: Volume % in entity	minimum		mode	_	maximum
<u>Ga</u>	s in gas assessment unit: Volume % in entity				_	
6.	NPS Protected Withdrawals (NPSP)	)	_represents_		_area % of t	he AU
<u>Oil</u>	in oil assessment unit: Volume % in entity	minimum		mode	_	maximum
<u>Ga</u>	s in gas assessment unit: Volume % in entity				_	

7.	US Forest Service (FS)		_represents_		area % of t	he AU
<u>Oil</u>	in oil assessment unit: Volume % in entity	minimum		mode	<u> </u>	maximum
<u>Ga</u>	s in gas assessment unit: Volume % in entity				_	
8.	USFS Wilderness Areas (FSW)		_represents_		area % of	the AU
<u>Oil</u>	in oil assessment unit: Volume % in entity	minimum		mode	_	maximum
<u>Ga</u>	s in gas assessment unit:  Volume % in entity				_	
9.	USFS Roadless Areas (FSR)		_represents_		_area % of t	the AU
<u>Oil</u>	in oil assessment unit: Volume % in entity	minimum		mode	_	maximum
<u>Ga</u>	s in gas assessment unit:  Volume % in entity				_	
10.	USFS Protected Withdrawals (FSP)		_represents_		area % of	the AU
<u>Oil</u>	in oil assessment unit: Volume % in entity	minimum		mode	_	maximum
<u>Ga</u>	s in gas assessment unit: Volume % in entity				_	
11.	US Fish and Wildlife Service (FWS)		_represents_		_area % of	the AU
<u>Oil</u>	in oil assessment unit: Volume % in entity	minimum		mode	_	maximum
<u>Ga</u>	s in gas assessment unit: Volume % in entity				_	
12.	USFWS Wilderness Areas (FWSW)		_represents_		_area % of	the AU
<u>Oil</u>	in oil assessment unit: Volume % in entity	minimum		mode	_	maximum
<u>Ga</u>	s in gas assessment unit: Volume % in entity					

13. USFWS Protected Withdrawals (FV	VSP)	_represents_		_area % of t	he AU
Oil in oil assessment unit:  Volume % in entity	minimum		mode	_	maximum
Gas in gas assessment unit:  Volume % in entity				_	
14. Wilderness Study Areas (WS)		_represents_		_area % of t	he AU
Oil in oil assessment unit:  Volume % in entity	minimum		mode	_	maximum
Gas in gas assessment unit:  Volume % in entity				_	
15. Department of Energy (DOE)		_represents_		_area % of t	he AU
Oil in oil assessment unit:  Volume % in entity	minimum		mode	_	maximum
Gas in gas assessment unit:  Volume % in entity				_	
16. Department of Defense (DOD)		_represents_		_area % of t	he AU
Oil in oil assessment unit:  Volume % in entity	minimum		mode	_	maximum
Gas in gas assessment unit:  Volume % in entity				_	
17. Bureau of Reclamation (BOR)		_represents_	9.74	_area % of t	he AU
Oil in oil assessment unit:  Volume % in entity	minimum		mode	_	maximum
Gas in gas assessment unit:  Volume % in entity			5	_	
18. Tennessee Valley Authority (TVA)		_represents_		_area % of t	he AU
Oil in oil assessment unit:  Volume % in entity	minimum		mode	_	maximum
Gas in gas assessment unit:  Volume % in entity					

19. Other Federal		_represents_		area % of the AU
Oil in oil assessment unit:  Volume % in entity	minimum		mode	maximum 
Gas in gas assessment unit:  Volume % in entity				
20		_represents_		area % of the AU
Oil in oil assessment unit:  Volume % in entity	minimum		mode	maximum 
Gas in gas assessment unit:  Volume % in entity				

### ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO ECOSYSTEMS Surface Allocations (uncertainty of a fixed value)

Central Basin and Hills (CNBH)		_represents_	100	_area % of th	ne AU
Oil in oil assessment unit: Volume % in entity	minimum		mode		maximum
Gas in gas assessment unit: Volume % in entity			100		
2		_represents_		_area % of th	ne AU
Oil in oil assessment unit: Volume % in entity	minimum		mode		maximum
Gas in gas assessment unit: Volume % in entity					
3		_represents_		_area % of th	ne AU
Oil in oil assessment unit: Volume % in entity	minimum		mode		maximum
Gas in gas assessment unit: Volume % in entity					
4		_represents_		_area % of th	ne AU
Oil in oil assessment unit: Volume % in entity	minimum		mode		maximum
Gas in gas assessment unit: Volume % in entity					
5		_represents_		_area % of th	ne AU
Oil in oil assessment unit: Volume % in entity	minimum		mode		maximum
Gas in gas assessment unit: Volume % in entity					
6		_represents_		_area % of th	ne AU
Oil in oil assessment unit: Volume % in entity	minimum		mode		maximum
Gas in gas assessment unit: Volume % in entity					

7		represents		_area % of the AU	
Oil in oil assessment unit:  Volume % in entity	minimum		mode	maximum 	
Gas in gas assessment unit:  Volume % in entity					
8		_represents_		_area % of the AU	
Oil in oil assessment unit: Volume % in entity	minimum		mode	maximum 	
Gas in gas assessment unit: Volume % in entity					
9		_represents_		_area % of the AU	
Oil in oil assessment unit: Volume % in entity	minimum		mode	maximum 	
Gas in gas assessment unit: Volume % in entity					
10		_represents_		_area % of the AU	
Oil in oil assessment unit: Volume % in entity	minimum		mode	maximum 	
Gas in gas assessment unit: Volume % in entity					
11		_represents_		_area % of the AU	
Oil in oil assessment unit: Volume % in entity	minimum		mode	maximum 	
Gas in gas assessment unit: Volume % in entity				_	
12		_represents_		_area % of the AU	
Oil in oil assessment unit: Volume % in entity	minimum		mode	maximum 	
Gas in gas assessment unit:  Volume % in entity					
- · · <b>,</b>				_	